



PCT

## RAW SEQUENCE LISTING

DATE: 03/19/2003

PATENT APPLICATION: US/09/868,553B

TIME: 14:14:17

Input Set : A:\9310-37.ST25.txt

Output Set: N:\CRF4\03192003\I868553B.raw

3 <110> APPLICANT: Akzo Nobel, NV  
 4 Yap, Sing Hiem  
 5 Verslype, Chris Julien Cornelius  
 6 Boender, Pieter Jacob  
 7 Hellings, Jan Albert  
 9 <120> TITLE OF INVENTION: Hepatitis Y Virus  
 11 <130> FILE REFERENCE: 9310-37  
 13 <140> CURRENT APPLICATION NUMBER: US 09/868,553B  
**C--> 14 <141> CURRENT FILING DATE: 2003-01-27**  
 16 <150> PRIOR APPLICATION NUMBER: PCT/EP99/10179  
 17 <151> PRIOR FILING DATE: 1999-12-16  
 19 <150> PRIOR APPLICATION NUMBER: EP98204313.5  
 20 <151> PRIOR FILING DATE: 1998-12-18  
 22 <150> PRIOR APPLICATION NUMBER: EP99200167.7  
 23 <151> PRIOR FILING DATE: 1999-01-20  
 25 <160> NUMBER OF SEQ ID NOS: 26  
 27 <170> SOFTWARE: PatentIn version 3.1  
 29 <210> SEQ ID NO: 1  
 30 <211> LENGTH: 304  
 31 <212> TYPE: DNA  
 32 <213> ORGANISM: Unknown  
 34 <220> FEATURE:  
 35 <223> OTHER INFORMATION: Hepatitis Y virus  
 37 <400> SEQUENCE: 1  
 38 gatcacaagc aactgcccga cgaacgtacg ctgagcgtat tcgtcgacga actgcacgcc 60  
 40 ctcgacaaac agcgctgtc cggcaagctg tccgaggagt tcaaccgcgc ctataccggc 120  
 42 atgtccagcg tggccaaagc cactgcccgg cgcgttgcc gactggacgc ccaggcgtg 180  
 44 caaagccaag gcgtgcagac gctgctcgag gccaccgca actggagcaa gcccgagctg 240  
 46 tggtagcca tcgagcgcgc cggcaaggtt tacacctacg attactacct gaccgcactg 300  
 48 gatc 304  
 51 <210> SEQ ID NO: 2  
 52 <211> LENGTH: 222  
 53 <212> TYPE: DNA  
 54 <213> ORGANISM: Unknown  
 56 <220> FEATURE:  
 57 <223> OTHER INFORMATION: Hepatitis Y virus  
 59 <400> SEQUENCE: 2  
 60 gatcgabgtg caacacgccc gcctathacg gcgcgtattg cttgtbgcag cctgagtgc 60  
 62 gcattagatt agccaattat ctggggcacc atcataagca gaagggataa gcatggcgct 120  
 64 caccgaccaa tccaccgca cccgtaccgg cgaagaactc gacgctgccg tcacgcacgc 180  
 66 ctatctcaag gcccatattc ccggcctgag tggcgaggcc gg 222  
 69 <210> SEQ ID NO: 3  
 70 <211> LENGTH: 15

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71 <212> TYPE: DNA
72 <213> ORGANISM: Artificial sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Synthetic oligonucleotide
77 <400> SEQUENCE: 3
78 cgtacgctga gcgta 15
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 15
83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: Synthetic oligonucleotide
89 <400> SEQUENCE: 4
90 ggcgtaccac agctc 15
93 <210> SEQ ID NO: 5
94 <211> LENGTH: 20
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Synthetic oligonucleotide
101 <400> SEQUENCE: 5
102 cacgccctcg acaaacagcg 20
105 <210> SEQ ID NO: 6
106 <211> LENGTH: 20
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Synthetic oligonucleotide
113 <400> SEQUENCE: 6
114 tctgcacgcc ttggtttgca 20
117 <210> SEQ ID NO: 7
118 <211> LENGTH: 15
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Synthetic oligonucleotide
125 <400> SEQUENCE: 7
126 gtgcaacacg cccgc 15
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 15
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Synthetic oligonucleotide
137 <400> SEQUENCE: 8
138 ccggcctcgc cactc 15
141 <210> SEQ ID NO: 9
142 <211> LENGTH: 18
143 <212> TYPE: DNA

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144 <213> ORGANISM: Artificial sequence
146 <220> FEATURE:
147 <223> OTHER INFORMATION: Synthetic oligonucleotide
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153 <210> SEQ ID NO: 10
154 <211> LENGTH: 18
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Synthetic oligonucleotide
161 <400> SEQUENCE: 10
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166 <211> LENGTH: 100
167 <212> TYPE: PRT
168 <213> ORGANISM: Unknown
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Hepatitis Y virus
173 <400> SEQUENCE: 11
175 Ser Gln Ala Thr Ala Arg Arg Thr Tyr Ala Glu Arg Ile Arg Arg Arg
176 1          5          10          15
179 Thr Ala Arg Pro Arg Gln Thr Ala Pro Val Arg Gln Ala Val Arg Gly
180          20          25          30
183 Val Gln Pro Arg Leu Tyr Arg His Val Gln Arg Gly Gln Ser His Cys
184          35          40          45
187 Pro Ala Arg Trp Pro Thr Gly Arg Pro Gly Ala Ala Lys Pro Arg Arg
188          50          55          60
191 Ala Asp Ala Ala Arg Gly Pro Pro Gln Leu Glu Gln Ala Arg Ala Val
192 65          70          75          80
195 Val Arg His Arg Ala Arg Arg Gln Gly Leu His Leu Arg Leu Leu Pro
196          85          90          95
199 Asp Arg Thr Gly
200          100
203 <210> SEQ ID NO: 12
204 <211> LENGTH: 101
205 <212> TYPE: PRT
206 <213> ORGANISM: Unknown
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Hepatitis Y virus
211 <220> FEATURE:
212 <221> NAME/KEY: MISC_FEATURE /
213 <222> LOCATION: (11)..(11)
214 <223> OTHER INFORMATION: x represents any amino acid
217 <220> FEATURE:
218 <221> NAME/KEY: MISC_FEATURE )
219 <222> LOCATION: (97)..(97)
220 <223> OTHER INFORMATION: x represents any amino acid
223 <400> SEQUENCE: 12

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```

W--> 225 Ile Thr Ser Asn Cys Pro Thr Asn Val Arg Xaa Ala Tyr Ser Ser Thr
      226 1          5          10          15
      229 Asn Cys Thr Pro Ser Thr Asn Ser Ala Cys Pro Ala Ser Cys Pro Arg
      230          20          25          30
      233 Ser Ser Thr Ala Pro Ile Pro Ala Cys Pro Ala Trp Pro Lys Pro Leu
      234          35          40          45
      237 Pro Gly Ala Leu Ala Asp Trp Thr Pro Arg Arg Cys Lys Ala Lys Ala
      238          50          55          60
      241 Cys Arg Arg Cys Ser Arg Pro Thr Ala Thr Gly Ala Ser Pro Ser Cys
      242 65          70          75          80
      245 Gly Thr Pro Ser Ser Ala Pro Ala Arg Phe Thr Pro Thr Ile Thr Thr
      246          85          90          95
      249 Xaa Pro His Trp Ile
      250          100
      253 <210> SEQ ID NO: 13
      254 <211> LENGTH: 101
      255 <212> TYPE: PRT
      256 <213> ORGANISM: Unknown
      258 <220> FEATURE:
      259 <223> OTHER INFORMATION: Hepatitis Y virus
      261 <400> SEQUENCE: 13
      263 Asp His Lys Gln Leu Pro Asp Glu Arg Thr Leu Ser Val Phe Val Asp
      264 1          5          10          15
      267 Glu Leu His Ala Leu Asp Lys Gln Arg Leu Ser Gly Lys Leu Ser Glu
      268          20          25          30
      271 Glu Phe Asn Arg Ala Tyr Thr Gly Met Ser Ser Val Ala Lys Ala Thr
      272          35          40          45
      275 Ala Arg Arg Val Gly Arg Leu Asp Ala Gln Ala Leu Gln Ser Gln Gly
      276          50          55          60
      279 Val Gln Thr Leu Leu Glu Ala His Arg Asn Trp Ser Lys Pro Glu Leu
      280 65          70          75          80
      283 Trp Tyr Ala Ile Glu Arg Ala Gly Lys Val Tyr Thr Tyr Asp Tyr Tyr
      284          85          90          95
      287 Leu Thr Ala Leu Asp
      288          100
      291 <210> SEQ ID NO: 14
      292 <211> LENGTH: 101
      293 <212> TYPE: PRT
      294 <213> ORGANISM: Unknown
      296 <220> FEATURE:
      297 <223> OTHER INFORMATION: Hepatitis Y virus
      299 <220> FEATURE:
      300 <221> NAME/KEY: MISC_FEATURE
      301 <222> LOCATION: (68)..(68)
      302 <223> OTHER INFORMATION: x represents any amino acid
      305 <400> SEQUENCE: 14
      307 Asp Pro Val Arg Ser Gly Ser Asn Arg Arg Cys Lys Pro Cys Arg Arg
      308 1          5          10          15
      311 Ala Arg Trp Arg Thr Thr Ala Arg Ala Cys Ser Ser Cys Gly Gly Pro

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```

312          20          25          30
315 Arg Ala Ala Ser Ala Arg Leu Gly Phe Ala Ala Pro Gly Arg Pro Val
316          35          40          45
319 Gly Gln Arg Ala Gly Gln Trp Leu Trp Pro Arg Trp Thr Cys Arg Tyr
320          50          55          60
W--> 323 Arg Arg Gly Xaa Thr Pro Arg Thr Ala Cys Arg Thr Gly Ala Val Cys
324 65          70          75          80
327 Arg Gly Arg Ala Val Arg Arg Arg Ile Arg Ser Ala Tyr Val Arg Arg
328          85          90          95
331 Ala Val Ala Cys Asp
332          100
335 <210> SEQ ID NO: 15
336 <211> LENGTH: 101
337 <212> TYPE: PRT
338 <213> ORGANISM: Unknown
340 <220> FEATURE:
341 <223> OTHER INFORMATION: Hepatitis Y virus
343 <400> SEQUENCE: 15
345 Ile Gln Cys Gly Gln Val Val Ile Val Gly Val Asn Leu Ala Gly Ala
346 1          5          10          15
349 Leu Asp Gly Val Pro Gln Leu Gly Leu Ala Pro Val Ala Val Gly Leu
350          20          25          30
353 Glu Gln Arg Leu His Ala Leu Ala Leu Gln Arg Leu Gly Val Gln Ser
354          35          40          45
357 Ala Asn Ala Pro Gly Ser Gly Phe Gly His Ala Gly His Ala Gly Ile
358          50          55          60
361 Gly Ala Val Glu Leu Leu Gly Gln Leu Ala Gly Gln Ala Leu Phe Val
362 65          70          75          80
365 Glu Gly Val Gln Phe Val Asp Glu Tyr Ala Gln Arg Thr Phe Val Gly
366          85          90          95
369 Gln Leu Leu Val Ile
370          100
373 <210> SEQ ID NO: 16
374 <211> LENGTH: 101
375 <212> TYPE: PRT
376 <213> ORGANISM: Unknown
378 <220> FEATURE:
379 <223> OTHER INFORMATION: Hepatitis Y virus
381 <220> FEATURE:
382 <221> NAME/KEY: MISC_FEATURE
383 <222> LOCATION: (6)..(6) /
384 <223> OTHER INFORMATION: x represents any amino acid
387 <220> FEATURE:
388 <221> NAME/KEY: MISC_FEATURE /
389 <222> LOCATION: (7)..(7)
390 <223> OTHER INFORMATION: x represents any amino acid
393 <220> FEATURE:
394 <221> NAME/KEY: MISC_FEATURE
395 <222> LOCATION: (9)..(9)

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/868,553B

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Input Set : A:\9310-37.ST25.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; Xaa Pos. 11, 97  
Seq#:14; Xaa Pos. 68  
Seq#:16; Xaa Pos. 6, 7, 9, 11, 64, 100  
Seq#:19; N Pos. 214, 216  
Seq#:20; N Pos. 357, 363, 364, 365, 366  
Seq#:21; N Pos. 546, 547  
Seq#:24; N Pos. 436, 439, 448, 452